EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	47	("3650094" "4032438" "4055491" "4076617" "4126547" "4280823" "4475921" "4523682" "4561953" "4673512" "4743361" "4759775").PN. OR ("5085783").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/12/02 14:45
L4	35	("5085783").URPN.	USPAT	ADJ	ON	2009/12/02 14:46
L5	0	210/748.01.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L6	0	210/748.02.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L7	0	210/748.03.ccls.	USPAT	ADJ	ON	2009/12/02 14:55
L8	177	demulsify	USPAT	ADJ	ON	2009/12/02 15:03
L9	1	demulsify\$ device	USPAT	ADJ	ON	2009/12/02 15:06
L10	1628	210/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L11	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L12	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L13	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:08
L14	30349	"205"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L15	89880	"250"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L16	66954	"422"/\$.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L17	408	134/109.ccls.	USPAT	ADJ	ON	2009/12/02 15:09
L18	484	134/108.ccls.	USPAT	ADJ	ON	2009/12/02 15:09

L19	0	("H001568").URPN.	USPAT	ADJ	ON	2009/12/02 15:10
L20	0	516/748.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L21	304	516/79.ccls.	USPAT	ADJ	ON	2009/12/02 15:11
L22	42	95/175.ccls.	USPAT	ADJ	ON	2009/12/02 15:12
L23	899	210/767.ccls.	USPAT	ADJ	ON	2009/12/02 15:24
S1	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:36
S2	2667	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:38
S3	2	Cou, shequan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S4	2	da, jianwen.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:39
S5	2	zhang, yougui.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S6	181	han, ping.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S7	2	zhang, jingyi.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:40
S8	254	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:41

S9	676994	(ultrasonic or transducer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:44
S10	2	S6 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S11	2	S8 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S12	458	S2 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:45
S13	0	S12 and ultrasonid transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S14	89	S12 and ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:57
S15	4	S14 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 11:58
S16	21	210/728.ccls. and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:03
S17	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S18	47373	oil and water emulsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04

S19	1164	S18 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:04
S20	114	S19 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S21	27	S20 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:05
S22	41845	(oil with water emulsion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:07
\$23	1054	S22 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S24	346	S23 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S 25	27	S24 and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/05 12:08
S26	1	"5225089".PN.	USPAT; USOCR	ADJ	ON	2008/12/05 12:47
S27	33	("4055491" "4280823" "4398925" "4523682" "4673512" "4759775").PN. OR ("5225089").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/12/05 12:48

"4280823" "4393708" USPAT, USCOR USPAT, USPAT, USCOR USPAT,	S28	45	("4055491"	US-PGPUB;	ADJ	ON	2008/12/06
"4475921" "4529435" "4539352" "453952" "4549435" "457356" "4736815" "4743361" "4877516" "4890268" "5006266" "5006266" "5096054" "5096054" "5096054" "5091893" "5197562" "5147562" "5149877" "5192450" "5227676" "5329496" "5419877" "5527460" "5831166" "592488" "6029518" "6029518" "6029518" "R903524"). PN. OR ("6216589"). URPN. USPAT ADJ ON 2008/12/06 19:05	320	45			ADO	ON	8
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"5225089" "5257676" "5329496" "5329496" "5460181" "5484537" "5460181" "5484537" "5460181" "60229518" "6029518" "6029518" "6029518" "6029518" "6029518" "6029588" "6029518" "6025858").URPN. USPAT							
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S30 9 ("5688405").URPN. USPAT ADJ ON 2008/12/06 19:05							
S30 9 ("5688405").URPN. USPAT ADJ ON 2008/12/06 19:05	S29	14	("6055859") URPN	USPAT	AD.I	ON	2008/12/06
S30 9 ("5688405").URPN. USPAT ADJ ON 2008/12/06 19:05 S31 16 "5951456" USPAT ADJ ON 2008/12/06 19:41 S32 15 ("5951456").URPN. USPAT ADJ ON 2008/12/06 19:49 S33 0 ("6065949").URPN. USPAT ADJ ON 2008/12/06 19:50 S34 66 516/195.ccls. USPAT ADJ ON 2008/12/06 20:01 S35 0 252/349.ccls. USPAT ADJ ON 2008/12/06 20:07 S36 0 252/796.ccls. USPAT ADJ ON 2008/12/06 20:07 S37 100 204/157.42.ccls. USPAT ADJ ON 2008/12/06 20:08 S38 1 ("5717181").URPN. USPAT ADJ ON 2008/12/06 20:14 S39 0 "157"".""62".ccls. US-PGPUB; USOCR; FPRS; EPO; JPO; ADJ ON 2008/12/06 21:05	O_O		(0000000). 61 11 14.	001711	, 120	0.1	
S31 16 "5951456" USPAT ADJ ON 2008/12/06 19:41			WEGGG 105W LIDEL	LODAT	AD.		
S31 16 "5951456" USPAT ADJ ON 2008/12/06 19:41 S32 15 ("5951456").URPN. USPAT ADJ ON 2008/12/06 19:49 S33 0 ("6065949").URPN. USPAT ADJ ON 2008/12/06 19:50 S34 66 516/195.ccls. USPAT ADJ ON 2008/12/06 20:01 S35 0 252/349.ccls. USPAT ADJ ON 2008/12/06 20:07 S36 0 252/796.ccls. USPAT ADJ ON 2008/12/06 20:07 S37 100 204/157.42.ccls. USPAT ADJ ON 2008/12/06 20:08 S38 1 ("5717181").URPN. USPAT ADJ ON 2008/12/06 20:14 S39 0 "157"".""62".ccls. US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; ADJ ON 2008/12/06 21:05	530	9	("5688405").URPN.	USPAT	ADJ	ON	
19:41 19:41 19:41 19:41 19:41 19:41 19:41 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:49 19:50 19:5							19:05
S32 15 ("5951456").URPN. USPAT ADJ ON 2008/12/06 19:49 S33 0 ("6065949").URPN. USPAT ADJ ON 2008/12/06 19:50 S34 66 516/195.ccls. USPAT ADJ ON 2008/12/06 20:01 S35 0 252/349.ccls. USPAT ADJ ON 2008/12/06 20:07 S36 0 252/796.ccls. USPAT ADJ ON 2008/12/06 20:07 S37 100 204/157.42.ccls. USPAT ADJ ON 2008/12/06 20:07 S38 1 ("5717181").URPN. USPAT ADJ ON 2008/12/06 20:08 S39 0 "157"".""62".ccls. US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; ADJ ON 2008/12/06 21:05	S31	16	"5951456"	USPAT	ADJ	ON	S
S33 0 ("6065949").URPN. USPAT ADJ ON 2008/12/06 19:50							19:41
S33 0 ("6065949").URPN. USPAT ADJ ON 2008/12/06 19:50	S32	15	("5951456").URPN.	USPAT	ADJ	ON	2008/12/06
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S34 66 516/195.ccls. USPAT ADJ ON 2008/12/06 20:01	C22		("6065040") LIDDNI	LICDAT	ADI		2009/12/06
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S35 0 252/349.ccls. USPAT ADJ ON 2008/12/06 20:07	ļ	,					
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S36 0 252/796.ccls. USPAT ADJ ON 2008/12/06 20:07	S35	0	252/349.ccls.	USPAT	ADJ	ON	2008/12/06
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S38 1 ("5717181").URPN. USPAT ADJ ON 2008/12/06 20:14 S39 0 "157"".""62".ccls. US-PGPUB; USPAT; USPAT; USOCR; FPRS; EPO; JPO;	}						
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S39 0 "157"".""62".ccls. US-PGPUB; ADJ ON 2008/12/06 USPAT; USOCR; FPRS; EPO; JPO;							20:08
S39 0 "157"".""62".ccls. US-PGPUB; ADJ ON 2008/12/06 USPAT; USOCR; FPRS; EPO; JPO;	S38	1	("5717181").URPN.	USPAT	ADJ	ON	2008/12/06
S39 0 "157"".""62".ccls. US-PGPUB; ADJ ON 2008/12/06 USPAT; USOCR; FPRS; EPO; JPO;			, -				
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S40	0	157/62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:05
S41	209	204/157.62.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:06
S42	11	optical scissors	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:24
S43	1052	optical tweezers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:30
S44	27369	ultrasonic transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S45	8647	S44 and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S46	2218	S45 and oil	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 21:44
S47	1399	demulsify	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S48	12	S47 and ultrasonic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/12/06 22:11
S 49	0	countercurrent ultasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41

S50	2	countercurrent ultrasonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 11:41
S51	15	("1865433" "2417722" "3264213" "3458140" "3672823" "3686115" "3772188" "3807563" "3886064").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 12:07
S52	25	("4003832").URPN.	USPAT	ADJ	ON	2009/05/13 12:29
S53	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:02
S54	0	"10/569967"	USPAT	ADJ	ON	2009/05/13 13:02
S55	0	"10569967"	USPAT	ADJ	ON	2009/05/13 13:03
S56	8373	transducer and (concurrent or countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:30
S57	1886	S56 and oil and water	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:31
S58	54	S57 and ultra\$sonic wave	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:32
S 59	47	S58 and concurrent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:35
S60	118	transducer and (concurrent and countercurrent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:36
S61	1	S60 and S58	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:37

S62	2726	210/748.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S63	0	210/2968D.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S64	0	210/2968.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:43
S65	255	516/113.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S66	1	S65 and transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 13:57
S67	19	"5951456"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 14:08
S68	0	("6065949").URPN.	USPAT	ADJ	ON	2009/05/13 14:20
S69	15	("5951456").URPN.	USPAT	ADJ	ON	2009/05/13 14:21
S70	622	425/4R.ccls.	USPAT	ADJ	ON	2009/05/13 14:30
S71	18	S70 and transducer	USPAT	ADJ	ON	2009/05/13 14:30
S72	4521	oil and emulsion and transducer	USPAT	ADJ	ON	2009/05/13 14:33
S73	310	S72 and ultrasonic wave	USPAT	ADJ	ON	2009/05/13 14:33
S74	38	("2714186" "3169013" "3176964" "3301535").PN. OR ("3614069").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/13 14:35
S75	39	("4120699").URPN.	USPAT	ADJ	ON	2009/05/13 14:39
S76	27	electrostatic desalting	USPAT	ADJ	ON	2009/05/13 15:22

S77	1289	transducer and "210"/\$. ccls.	USPAT	ADJ	ON	2009/05/13 21:26
S78	67	S77 and standing wave	USPAT	ADJ	ON	2009/05/13 21:28
S79	34	("5085783").URPN.	USPAT	ADJ	ON	2009/05/13 21:55
S80	6	"5085783".pn. or "4743361".pn. or "5147562".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13
S81	2	S80 and (oil or water)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/05/13 22:13

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L24	184	oil and emulsion and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:25
L25	0	countercurrent ultrasonic wave.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:29
L26	18	demulsify.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L27	1	oil and demulsify and transducer.clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:30
L28	1	transducer and (concurrent and countercurrent).clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31
L29	3	("s44" and "s47").clm.	USPAT; UPAD	ADJ	ON	2009/12/02 15:31

12/2/2009 3:32:34 PM

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